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Publication

SCIENCE  
NORTH  
ANNUAL  
REPORT  
1989  
1990



# MISSION STATEMENT

The mission of Science North is to provide stimulating learning opportunities and experiences throughout Northern Ontario, in English and French, for both residents and tourists, which involve people in the relationships between science and technology and everyday life with a Northern emphasis.



An agency of the Ontario Ministry of Culture and Communications.



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# LETTER FROM THE CHAIRMAN

The Honourable Rosario Marchese  
Minister of Culture and Communications  
Queen's Park  
Toronto, Ont.

Dear Minister,

On behalf of the Board of Trustees of Science North, it is my pleasure to submit to you the Annual Report for 1989-90.

The past fiscal year has been one of the most fulfilling in Science North's history. Our fifth anniversary saw many milestones: a show of support by 5,000 local residents during anniversary celebrations, the arrival of the centre's one millionth visitor, and development of a new five year strategic plan.

A new, refined mission statement reflects a maturing perspective for Science North, while adhering to the principles which were at the heart of the original mission statement adopted in 1987. Central to this perspective is the "Science North Experience", reflected in a goal statement for the entire organization.

This statement encompasses the realization that Science North is a concept as much as a building. It is a philosophy and approach to science and technology; it is an experience.

While many science centres measure their size and success by documenting the number of exhibits contained within, Science North views exhibity somewhat differently. It is quite impossible to say how many exhibits there are at Science North, and more importantly, it is not an important question. What is important is defining and clarifying the experiences available to Science North visitors.

The Board recognizes the staff of Science North for their outstanding initiative in developing new goals for the centre, while maintaining current standards of excellence. We look forward, Minister, to working closely with you and your Ministry to the further development of Science North as a successful science centre.

Sincerely,



Robert G. Gougeon  
Chairman  
Board of Trustees

# REPORT FROM THE CHIEF EXECUTIVE OFFICER

Science North has developed in its first five years a new sense of maturity and direction, built upon the success and progress of its experience.



Feelings of pride and accomplishment reached a climax during fifth anniversary celebrations, June 19, 1989. Science North had welcomed its one millionth visitor three weeks before, in a flurry of gifts, balloons, and media attention. Plans were being made to officially twin the Big Nickel Mine with an international attraction in Japan. An intensive Strategic Planning process had just been started to give the entire centre redefined goals.

Against this backdrop, Science North mounted its largest ever public birthday party. Over 5,000 people converged on the Bell Grove site, under perfect weather conditions, for a giant Science North Experience. Clowns entertained children with science-related activities. Professional musicians set the mood on an outdoor stage. The centre's new bus shuttled party-goers to and from the Big Nickel Mine. Some 2,800 people visited inside the science centre, before the evening culminated with a spectacular fireworks display.

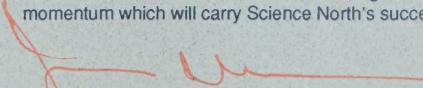
The celebration carried over to the end of the calendar year, when Science North reported its third consecutive attendance record. A total 286,453 visitors attended Science North, the Big Nickel Mine, and the Path of Discovery in 1989, a 3 per cent increase over 1988 attendance of 278,821.

An unprecedented number of capital initiatives were launched during the year. The Ministry's \$1.2 million capital allotment to Science North was the largest in the centre's history. Combined with other revenues, the centre's capital budget for 1989-90 was a record \$1.5 million.

A new Strategic Plan was developed in consultation with staff, community leaders, educational and tourism representatives, volunteers, government officials, and individuals from Northern communities.

The Plan establishes five strategic priorities for Science North during the next three to five years: Northern Services, Enhancement of the Bell Grove Experience, Development of the Big Nickel Mine, Development of Human Resources, and Improving the Marketing of the Centre.

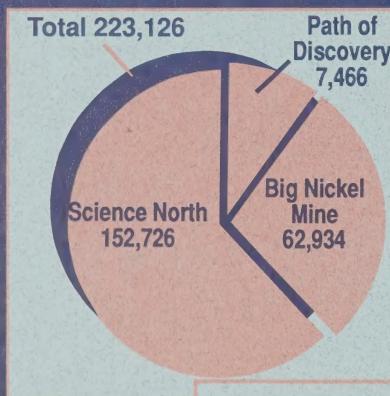
These priorities will be realized with the continued support of Science North staff, volunteers, and Trustees. The enthusiasm, talent, and imagination generated by our supporters have created a momentum which will carry Science North's successes into its first decade.



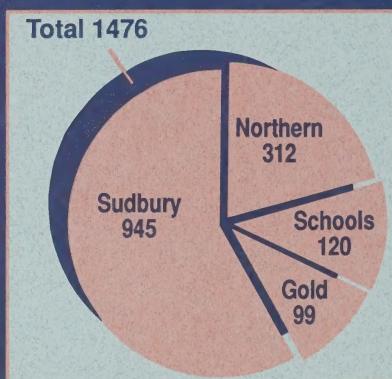
James Marchbank  
Chief Executive Officer

# FACTS AND FIGURES- April 1, 1989 to March 31, 1990

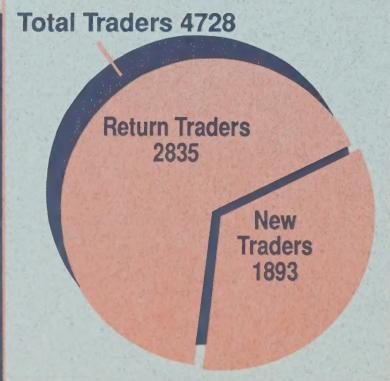
## Attendance



## Memberships



## Swap Shop



## Operating Hours

**Science North**  
Open year round.

**Big Nickel Mine**  
May 1, 1989 to October 9, 1989.

**Path of Discovery**  
Public tours from June 26, 1989 to September 4, 1989.

**Cortina Cruise**  
May 20, 1989 to October 1, 1989.

# NORTHERN SERVICES

The Science North Act requires Science North to serve all Northern Ontario. This is the centre's first strategic objective, which will be met by building a network of partnerships, learning opportunities and experiences, to involve the entire community in science discovery.

## Expanded reach

The first step to meet this Northern mandate in 1989 was to reorganize limited staff resources to maximum efficiency. A Deputy Science Director for Northern Services became responsible for five full-time staff comprised of three units: Community Programs, Extension Programs, and School Programs.

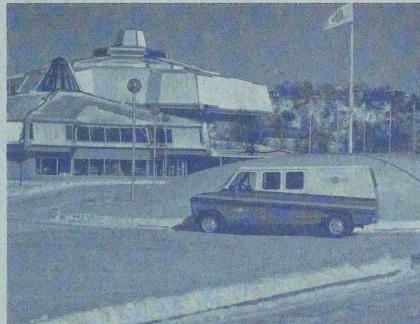
A temporary physical operations base for Northern programming was created in a portable office unit in November, with a long term objective to establish a permanent Outreach base in the Bell Grove Arena.

A \$240,000 grant through the Ministry of Northern Development and Mines facilitated the launch of a number of projects to create a year round Science North experience, and to expand the centre's reach, in Northern Ontario.

Plans have been developed to network satellite "Swap Shops" in six Northern communities, via computer from permanent bases in schools and libraries.

At the Swap Shop, items gathered from nature are assigned a point value, allowing collectors to build "equity" each time they make a trade. The computer network will make this credit system portable throughout the North.

A portable version of Bell Grove's "Alex Baumann Human Performance Lab" was developed for travel. Extension Services staff will use the exhibit to offer Canadian standard fitness tests in the North.



*Since the purchase of two custom-equipped Outreach vans in May, 1989, staff have logged approximately 37,000 kilometres, visiting cities and towns stretching from Kenora to Renfrew, and from Summer Beaver to Toronto.*

Alternatively, certified fitness appraisers who lack the resources to conduct tests, may borrow the equipment to offer the service in their home communities.

Science "toolboxes" were developed in the past fiscal year, for loan to schools and other interested groups across the North. Each toolbox will offer tools for scientific exploration, a guide for budding young scientists, and activity cards, designed to apply science to everyday life.

Toolboxes address five topics. Pollution, bubble, and prospecting toolboxes were funded by the Ministry of Northern Development and Mines. Financial assistance was provided by the Ministry of Natural Resources and the Canadian Forestry Service, for the development of forestry toolboxes, and by the Ministry of Energy, for energy toolboxes.

Telescope-making toolboxes will also be available to schools, to complement a portable planetarium exhibit. The inflatable planetarium, which uses small projectors to create a variety of images on a fabric dome ceiling, will be purchased with the assistance of the Ministry of Northern Development and Mines, Noranda Mines Ltd., and Falconbridge Ltd.

An Outreach program offers three unique approaches to communicating science. Activity stations present five or six science topics to large numbers of people. Individual programs are tailored to smaller groups, and may be custom designed. Workshops focus on equipment assembly, such as building a telescope.



*The Science North Swap Shop has proven to be an enormously successful concept at Bell Grove. In 1989-90, 5,000 visitors exchanged items collected from nature with natural objects contained in Science North collections.*

An Outreach summer program travels to provincial parks during the peak tourist season. Science activity

stations are offered during the day, an environmental show in early evening, and stargazing parties at night.

During the fiscal year, staff visited 58 schools, 27 parks, 11 libraries, seven community centres, shopping malls, museums, and extendicare residences, and four science fairs. Approximately 34,965 people in all were touched by the Science North experience.

This community network has been enhanced by the expansion of Science North "Discovery Camps" to children in Elliot Lake, Timmins, Sault Ste. Marie, and North Bay, supported by a Science Culture Canada grant. Discovery Camp is a summer program of leisure learning, utilizing local students as camp supervisors where possible.

Northern students from beyond Sudbury were hired to work at Science North last summer, under a Northern Student Employment Program. With the help of a

Ministry of Northern Development and Mines grant, 12 students from across Northern Ontario enjoyed a valuable and educational career experience.

The Science North experience has also been extended to teachers. In February, six specialty workshops were offered to 180 teachers from the Algoma District and Sault District Boards of Education. Staff also attended a "Chem-Ed" conference in Kingston, to interact with high school teachers from across Canada and the United States.

Response from the educational community has remained positive. In 1989-90, 39,270 school children took advantage of the centre's quality school programs, in English and French.

For a third consecutive year, the Sudbury Chapter of Caisse Populaire purchased memberships on behalf of local elementary level French language schools,

representing 11,250 students. Science North school memberships provide students and teachers with unlimited free admission to the centre's attractions and special events.

Memberships were also purchased by the English section of the Sudbury Roman Catholic Separate School Board, by individual public schools in Sudbury, and by the North Bay Roman Catholic Separate School Board.

Children's programming was expanded with the introduction of "Starting the 1990's", a week long science day camp which coincided with the Christmas school holiday. Two "Saturday Morning Magic" programs were also added to the roster of children's activities, providing younger children, ages 4 to 7, with the opportunity to participate in science programming every Saturday morning, during the month of February.

## ENHANCEMENT OF THE BELL GROVE EXPERIENCE

To fulfill a strategic need to build and strengthen the Bell Grove facility as the flagship of Science North, projects were initiated to take full advantage of natural and man-made physical features, and to improve science programming capabilities.

Chief among these projects was the acquisition of the Bell Grove Arena, located adjacent to the science centre. An agreement was reached in May, 1990 to purchase the property from the City of Sudbury for \$2,535 million.

An expanded physical plant is necessary to the evolution of the Bell Grove visitor experience. The new facility will be renovated to expand space available for exhibits and events by at least 50 per cent.

Phase one of renovations will link the arena and the Science North entrance building. The entrance to Bell Grove will move to this link and the existing entrance area will improve as a visitor orientation space. Phase



*Phase one of renovations will link the Bell Grove Arena (upper right), and the Science North entrance building (bottom left). By phase three, a circulation loop for visitors will link all three buildings.*

two will renovate the interior of the arena, to create a special events hall for travelling exhibits. Staff support space in the existing exhibit building will be moved into the arena, freeing a further 2,500 square feet for public programming.

Phase three will link the exhibit building with the arena to create a circulation loop for visitors. The cafeteria and gift shop will be relocated into the new facility, further enhancing orientation and marketing opportunities in the existing entrance area.

Plans were also explored and developed for the enhancement of outdoor grounds, in consultation with a Sudbury-based landscape architect. All full-time staff participated in the process, which involved extensive and imaginative input to develop the Bell Grove site and surrounding area as a park area, offering science opportunities suitable for self-initiated or guided activities.

## Cavern Show

Work began on development of a multi-media Cavern show, as a prime scientific attraction of the centre. A subcommittee of the centre's Scientific Program Committee was appointed in September to oversee development, with a target completion date of June, 1992.

The new multi-media production will use dramatic elements of object-theatre techniques and 3-D imaging to portray the genesis of the Sudbury Basin. Elements of the show will begin as visitors walk toward the Cavern through an underground tunnel, enhanced by images of crashing meteorites and impending volcanic eruption.

The main show features two principal cinematic characters—a grandfather who represents knowledge and a young girl who represents innocence and wonder. Their 3-D images will take the audience on a journey through the evolution of the Sudbury Basin. Special effects, such as lava bursting from a volcano, 3-D animation, and large scale objects, including a meteorite, will be interwoven against a background of 3-D 70 mm footage and 3-D laser imagery.

## Discovery Theatre

The Discovery Theatre has become a focal point for areas of science which currently fall outside of, or between, traditional sphere boundaries.

The 150-seat amphitheatre, located at the centre of the exhibit floors, is used to present live science demonstrations. Work began on a new show, focusing on environmental concerns not directly addressed by existing science spheres.

The show looks at the local environment, the consequences of industrial development on the earth and the atmosphere, and what is being done to correct the problem. This Science North production blends slides, live dialogue, and magic tricks, with a television news format.

## AstroSphere

AstroSphere was in the spotlight for much of the 1989-90 fiscal year, due to a special winter exhibition focusing on space transportation, and to an unusually high level of astronomical events.

"Our Voyage in Space", a special exhibition presented from January through March, offered an original Cavern show highlighting Canada's contributions to space travel and communications, and interactive activities on the exhibit floors. Opening weekend featured presentations by American and Canadian astronauts, which filled the 300-seat Cavern to capacity four times.

Final pictures of our solar system, sent back to earth by NASA's Voyager II spacecraft, were broadcast live at Science North via satellite. In August 1989, capacity audiences were treated to the first live pictures of Neptune on the giant Cavern screen. A panel of scientific experts was assembled to interpret images and to answer questions. A follow-up to this historic space encounter was provided by guest speaker Terrence Dickinson, in November.

Voyager's satellite images provided a wealth of permanent new exhibitory. High resolution images were transferred onto laser disc to create an electronic scrapbook. The scrapbook, together with educational software developed at Science North, has been made available to NASA, the University of California, a computer club in New York City, and to Apple Canada.

AstroSphere also provided special public programming during a spectacular lunar eclipse in August, 1989. Approximately 250 people took advantage of the free outdoor event, to watch the eclipse through telescopes and to learn from members of the Sudbury Astronomy Club and Science North astronomers.

## InfoSphere

The "Music Studio", which invites visitors to create music, was upgraded with additional high-tech computer interfaces and musical instruments. The improvements expand visitor opportunities to



*Opening weekend of "Our Voyage in Space" featured presentations by American astronaut Jon McBride and Canadian astronaut Bob Thirsk. Thousands of people came out to hear the astronauts, and to request their autographs.*

experiment with equipment not usually accessible to the general public.

The sphere's shortwave radio station was also improved, for better public access. A new computer program allows visitors to select a country from a digitized map, to hear the language of that country, to review its demographics, and to choose a network for automatic broadcast on the shortwave radio.

A new "motion music" exhibit, and a voice controlled computer program, promote active interaction between visitors and technology. "Motion music" transmits a video image of visitors onto a computer monitor, which then generates sound at every movement. The voice controlled computer program gives visitors oral command of a Macintosh computer, in both English and French.

Capital improvements to Discovery Lab removed physical obstructions to create a more open and versatile space for public and school workshops. The Ministry of Energy has provided a grant to construct a renewable energy exhibit in the area, which will feature a small waterfall, solar panels, and other examples of renewable energy sources.

## Humanosphere

A \$600,000, three year capital enhancement of Humanosphere began with development of a new "Brain Show" object theatre and a major new "Sensory Surround" exhibit area.

Two contract staff were hired January 1 to accelerate development of the new exhibit, which is partially funded with a \$402,020 grant under the Health Innovation Fund of the Premier's Council on Health Strategy. Science North is one of the first agencies to receive funding under this program.

"Sensory Surround" includes a "vision lab", which offers a number of independent learning opportunities: measure your central and peripheral vision, assess your 3-D and binocular vision, and explore your eye



A new "Sensory Surround" exhibit in Humanosphere invites visitors to explore their inner eye with a "slit lamp" microscope.

with a "slit lamp" microscope, models, and mirrors.

In a new "speech and hearing" area, visitors are invited to test their skills at lip reading, to measure

sound levels at Science North and that of ordinary household appliances, to talk using an electrolarynx, to watch and listen to themselves speak, to test various models of hearing aids, and to speak into a delayed auditory feedback unit.

Work began on the "Brain Show", a new object theatre that will use original film, special effects, and audience participation, to explore the brain's ability to integrate information generated by the senses.

## Geosphere

Highlight of the year was the February official opening of a new "Rocks to Riches" exhibit by the Minister of Mines. This original, interactive display traces the processes of metal extraction from ore used in mills, smelters and refineries in the Sudbury region. Visitors grind, separate, and "smelt" Sudbury ore, thereby gaining an understanding of mineral processing and its resulting environmental impacts.

"Rocks to Riches" was developed with assistance from INCO Ltd., Falconbridge Ltd., and technical advisors from the community, and with the support of the Women's Association of the Mining Industry of Canada.

Geosphere also illustrated Science North's ability to respond to current, "real" science, during the San Francisco earthquake of October 17. Within hours of the event, Geosphere responded to public demand for information with maps, seismic read-outs, and interviews to the news media. The sphere's efforts were co-ordinated with Infosphere, which mobilized volunteer shortwave radio operators to monitor calls from the stricken area.

## Biosphere

Biosphere marked the official March opening of a new "Forestry" exhibit, by the Minister of Natural Resources. The exhibit was developed with the assistance of a two year, \$75,000 grant, provided by the Ministry of Natural Resources and the Canadian

Forestry Service.

"Forestry" introduces visitors to forest ecology and forest management through hands-on activities. The exhibit consists of six components: forest ecology, fire ecology, forest insects, managing the forest, forest products, and forestry toolboxes.

"Forest ecology" traces the life cycle of a forest.

"Fire ecology" features a 225-year-old red pine tree, which was scarred by fire three times during its life. "Forest insects" examines the unique niche insects inhabit in the forest, with live insect displays. "Managing the forest" looks at how and why we manage the forests. "Forest products" displays a variety of wood products, including paper made by visitors to the exhibit.

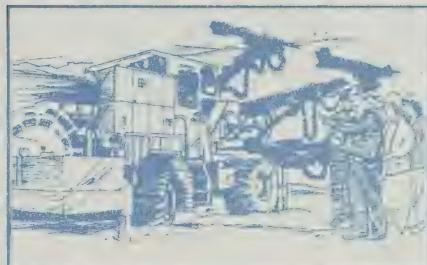
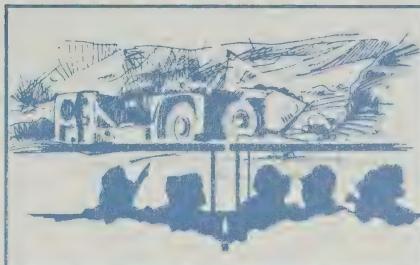
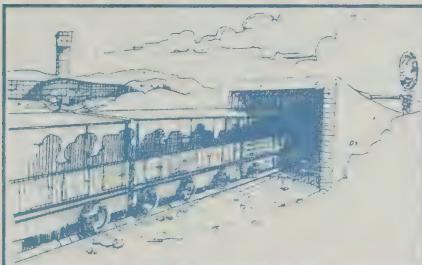
## Atmosphere

A microclimate exhibit was undertaken in Atmosphere. It consists of a five-metre-high tower anchored to rock just outside the exhibit area. A number of temperature sensors were installed at various heights on the tower, and down to a depth of three metres into the rock. Temperature readings from these sensors are fed into a Macintosh computer, where visitors can learn and appreciate what the weather conditions are in the ground and close to the ground.

A new exhibit on ozone was undertaken in early 1990. It is now possible for visitors to see how many millimetres of ozone there are over the northern hemisphere. This data is generated using meteorological data from two weather maps. An award winning film on ozone science in Canada is also available in the Atmosphere video theatre.

The Atmosphere lab offered two new school programs: "Investigating the Atmosphere" and "Weather Instruments". Both programs provided schoolchildren with hands on opportunities for investigating the weather, from building their own weather instruments, to making snow crystals, learning about air pollution, and playing with air bubbles in a variety of liquids.

# DEVELOPMENT OF THE BIG NICKEL MINE



*The first phase of Big Nickel Mine development will include expansion of underground tunnels, provision of a personal carrier for visitors, construction of a larger cage elevator, construction of underground theatres, and improvements to existing surface facilities.*

Now is the time to develop the Big Nickel Mine as a high-quality participatory experience to interpret the science, technology, and history of the mining industry in Northern Ontario.

Science North has transformed the Big Nickel Mine into the most popular real underground experience in Canada, since acquiring the facility from private owners in May, 1981. Knowledgeable guides offer quality underground public tours on a daily basis, from May to October.

While attendance at the Mine remains higher than similar Canadian attractions, it has slowly declined over the past three years. In 1989, attendance was down four per cent to 70,400, from 73,436 in 1988. The Mine demonstrates old mining technology, and has little variety of programming. Unless the facility is fully developed, attendance at the Big Nickel Mine will inevitably remain constant or decline.

An expanded Big Nickel Mine will complement the investment the government of Ontario has made to mining in Sudbury, and will reflect Northern Ontario's status in the international mining community. The Big

Nickel Mine must become a place where visitors experience the thrill and mystique of going underground, as well as the past, present, and future of mining in Ontario.

The Big Nickel Mine Planning Committee has approved a site development plan, designed by the Sudbury firm of Dewit & Castellan Architects. A development committee is now carrying the plan forward.

Work by the development committee will continue through the fiscal year. In the interim, initiatives were taken for the 1990 season to increase the Mine's educational market share from 1989 levels of 6,595 visiting schoolchildren. Two school programs were developed to provide additional educational components to the underground tour.

Highlight of the year was the official twinning of the Big Nickel Mine with Mineland Osarizawa, a tourist mine located in Kazuno City, Akita Prefecture, Japan. Opened to the public in 1982, Mineland Osarizawa now attracts 450,000 visitors a year and has begun an expanding tourism industry in Kazuno.

The partnership was initiated by Mineland Osarizawa Managing Director Shokichi Nakamura, who visited the Big Nickel Mine as a tourist in 1987, and who led a delegation to Sudbury in July, 1989, for the twinning.

This international link will be a source for continuing exchange of operational information and future exchanges of technology.

## Path of Discovery

Science North operated its own tour bus on the Path of Discovery. Purchase of the 29-passenger vehicle resulted in a 23 per cent increase in attendance over 1988, from 6,093 to 7,466. This is the third consecutive year that the surface geology and mining plant bus tour has experienced a high rate of growth.

INCO Ltd. continued to support the tour by providing access to its property, retired miners as additional tour guides, and a total 10,000 maps and pamphlets as souvenirs for passengers.

# DEVELOPMENT OF HUMAN RESOURCES

Science North recognizes the importance of attracting, retaining, and developing high-quality human resources, including full and part-time staff, volunteers, and summer students.

Leadership has been provided by the appointment of a Manager of Human Resources, to develop human resource systems to attain this goal.

- Systems were implemented, in January, to update the organization's salary plan on an annual basis, to remain current and in compliance with Pay Equity legislation.
- The centre's first annual professional development plan was finalized, maximizing the organization's financial resources to develop staff to their full potential.
- Commitment to French language service continued, with in-house training provided to all staff.
- A multi-cultural training program for staff and volunteers, to heighten sensitivities of ethnic backgrounds, was developed with assistance from the Ministry of Culture and Communications.



Science North's 300 volunteers, ranging in age from 13 to 86, perform a variety of tasks from exhibit interpretation and development to clerical duties and admissions.

## Staff recognition

Recognition of staff and volunteers was formalized over the past fiscal year. In conjunction with Science North's fifth anniversary, 16 staff were honoured for contributing five or more years service and dedication to the centre.

Community recognition was bestowed upon two Deputy Science Directors. The Directors, Donna Salem and Jennifer Pink, were presented with the Bernadine Yackman Award by the Sudbury Business and Professional Women's Club, for acting as outstanding role models in their place of employment.

Science North's 300 volunteers were honoured for

donating over 19,000 hours to Science North during 1989-90. With a diversity of talent, volunteers ranging in age from 13 to 86 perform a variety of tasks at the centre, ranging from exhibit interpretation and development to clerical duties and admissions.

For the first time, the centre developed a volunteer youth award to be presented to youth between the ages of 13 and 19, on an annual basis beginning in the 1990-91 fiscal year. Six adult volunteers were also nominated to receive bronze Trillium pins from the province for five years of active service.

Science North staff remained active with affiliated

organizations. Deputy Science Director Alan Nursall was re-elected president of the Canadian Council of Science Centres (CCSC), with a mandate to promote public participation and enjoyment of science. In October, Science North played host to 50 CCSC delegates, representing 12 member institutions from across Canada, as well as science centres in Orlando and Helsinki.

The annual conference provided Science North staff with an excellent opportunity to learn from their colleagues and to impart a little of their own wisdom at the same time.

# IMPROVING MARKETING OF THE CENTRE

A Marketing orientation is developing throughout Science North, in recognition that responsibility for bringing people to Science North, and bringing Science North to people, is shared by all staff.

Science North continued to build target audiences in 1989-90, in its five major markets of Sudbury Region, Northern Ontario, Southern Ontario, other provinces, and the United States, with special events and promotions.

The centre's summer promotional campaign focuses on a 200 km radius of Sudbury to improve cost effectiveness and to capture traffic already in the area for reasons other than to visit Science North. Media buys are purchased on a two-for-one basis in a co-operative effort with Lakelands Beverages, bottlers of Pepsi-Cola.

Media relations efforts in Northern and Southern Ontario continued during the reporting period, as did continued participation in retail travel shows in southern Ontario, and motor coach industry marketplaces in Canada and the United States.

The centre extended its reach into Northern Ontario with a "Northern Membership" program, which grew from 280 to 312 memberships over the year. The program provides residents outside the Region of Sudbury with easier access to the centre and its services.

Science spheres initiated a number of special events fulfilling the centre's mandate to provide stimulating learning opportunities and experiences. Science North's 1,356 members, representing approximately 5,200 people, continue to provide a loyal audience for these unique learning opportunities.

A Science North "speakers' fund" was used for the first time to host Canadian astronomer Ian Shelton, in February. His presentation, initiated by AstroSphere



*A Science North "speakers' fund" was used for the first time to host Canadian astronomer Ian Shelton, in February.*

to coincide with Our Voyage in Space, marked the third anniversary of his internationally famous discovery of the first visible supernova in the past 400 years.

Fundraising initiatives by a committee of the Science North Board of Trustees and individual program areas were facilitated by a variety of committees and departments.

Science North's 99 Gold Members, representing 255 business people, contributed over \$18,860 to the centre's capital fundraising efforts in 1989-90.

The Greg Neilson Memorial Fund, established by friends in memory of a former Science North employee, received private donations over the past fiscal year. The fund will be used to send disadvantaged children to Science North summer camps, including Discovery Camp. The fund also received contributions from a volunteer Gourmet Dinner committee, through its annual January event.

For a second consecutive year, a volunteer "Support for Science Group" raised capital funding for AstroSphere, through the sale of Science North lottery tickets.

Staff and volunteers raised capital funding for Humanosphere with "Canoe Challenge '89". The combined fundraising and public relations event was presented in co-operation with the Sudbury General Hospital, in July.

The centre was an active participant in the "Cities of the North" marketing group, formed in 1988 to package Northeastern Ontario as a destination region for the commercial bus tour industry in southern Ontario and the United States. The group is comprised of tourism development officers, attractions, and travel associations from Sudbury, Sault Ste. Marie, North Bay, and Timmins.

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Ms. Georgette Mitchell  
Mr. Richard Stewart  
Mr. Lawrence Tregonning  
Mr. Hervé Tremblay

# SCIENCE NORTH STAFF

## As of March 31, 1990

**Chief Executive Officer**  
James Marchbank

**Executive Secretary**  
Joyce Elliott

**Science Director**  
Tom Semadeni

**Deputy Science Directors**  
Alan Nursall  
Donna Salem  
Jennifer Pink

**Senior Secretary**  
Janine Pigozzo

**AstroSphere**  
Steve Dodson, Astronomer  
Andrew Yee, Staff Scientist

**Atmosphere**  
**Lewis Poulin, Manager**  
Michael Grace, Staff Scientist  
Gerhard Schinko, Staff Scientist

**Biosphere**  
**Franco Marlotti, Manager**  
Wendy Runions, Staff Scientist  
Sandra Corbeil, Staff Scientist

**Geosphere**  
**Ruth Debicki, Manager**  
Claude Boivin, Staff Scientist  
Michelle Durant, Staff Scientist

**Humanosphere**  
**Colleen Zilio, Manager**  
Marie Foran, Staff Scientist  
Dan Kimmerer, Staff Scientist  
Rick Sowerby, Research Assistant

**Infosphere**  
**Munkith Al-Najjar, Manager**  
Kent Gardner, Staff Scientist  
Michel Maillet, Staff Scientist

**Big Nickel Mine**  
**Brenda Tremblay, Big Nickel Mine Manager**

**Northern Services**  
Nicole Chiasson, Extension Programs Manager  
Michael Bruneau, Staff Scientist  
Anthony Ingram, Staff Scientist  
Cathy Stadler-Wise, Staff Scientist  
Pierre Harrison, Staff Scientist

**Marketing**  
**Viviane Lapointe, Marketing Manager**  
Chloe Gordon, Development Officer  
Janyce Bain, Special Events Co-ordinator  
Pat Johnson, Promotion Officer  
Denis Ferlante, Promotion Officer  
Mireille Wright, Graphic Artist

**Design Services**  
**Diane Drinkwater, Design Services Manager**  
Astrid Colton, Graphic Artist

**Human Resources**  
**Leslie Stanford, Human Resources Manager**  
Denise Fera, Personnel Officer  
Jeanne Turgeon, House Manager  
- -, Head Cashier  
Carol Lalande, Volunteer Co-ordinator

**Finance**  
**Carolyn Thain, Controller**  
Kelly Lefroy, Accountant  
Denise McChesney, Accounts Payable Clerk  
Pierrette Lacelle, Finance Clerk

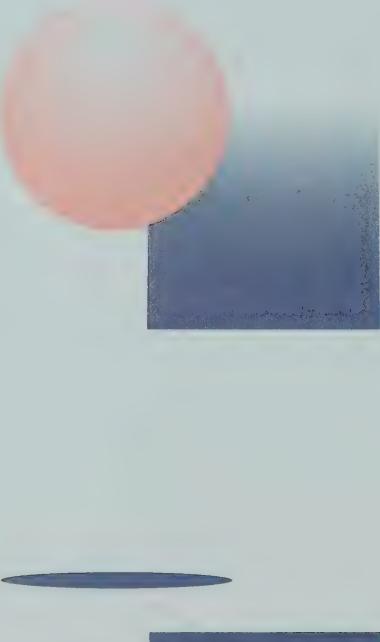
**Computers**  
**Dave Kelly, Computer Services Manager**  
Graham Dudley, Computer Scientist

**Physical Services**  
**Daryl Potvin, Physical Services Manager**  
Ron Lalancette, Maintenance Manager  
Bill Mann, Maintenance Technician  
Frank Pilkington, Maintenance Technician  
Paul Loiselle, Maintenance Technician  
Lazarre Ferron, Carpenter  
Donald Greco, Carpenter (apprentice)  
Tasio Gregorini, Shipper/Receiver

**Program Production**  
**Dave Lickley, Senior Producer**  
Robert Gagné, Associate Producer  
Phil Morrow, A.V. Technician - Lighting  
Gabriel Trudel, Electronics Technician  
Tom O'Brien, Projectionist

**Secretarial Services**  
Eileen Kotila, Secretary  
Diane Rossi, Secretary  
Carey Roy, Secretary  
Suzanne Desloges, Secretary  
Denise Roy, Receptionist

# SCIENCE NORTH DONORS



## Founders

Province of Ontario  
Government of Canada  
Inco Ltd.  
Falconbridge Ltd.  
The Corporation of the City of Sudbury  
The Regional Municipality of Sudbury

## Benefactors

United Broadcasting Ltd.  
Hewlett-Packard (Canada) Ltd.

## Patrons

Atlas Steels  
Bank of Montreal  
Bank of Nova Scotia  
Canadian Imperial Bank of Commerce  
Harry Melnychuk Memorial Trust Fund  
Mid-Canada Communications Ltd.  
The Royal Bank of Canada  
The R. Samuel McLaughlin Foundation  
Science North Gourmet Dinner Committee  
Shell Canada Ltd.  
Toronto Dominion Bank  
W.E. Mason Foundation

## Builders

Abitibi-Price Inc.  
Acme Building and Construction Ltd.  
Bell Canada  
C.I.L. Inc.  
Canadian Pacific Ltd.  
Cavalier Beverages - Pepsi, Seven-Up, Crush  
Imperial Oil Ltd.  
J.P. Bickell Foundation  
John Labatt Ltd.  
The Molson Companies Ltd.  
Northern Telecom Ltd.  
Texaco Canada Resources Ltd.  
Joseph S. Stauffer Foundation

## Founding Members

The Atkinson Charitable Foundation

Campeau Corporation

Canada Trust Company

Canadian National Railway Company

Canadian Tire Corporation

Dome Mines Limited

Paul & Sue Dupuis, Stephen & Sharon Wicklander  
Gulf Canada Ltd.

Imasco Ltd.

J.S. Watson and Associates Ltd.

LOEB Inc. and I.G.A. Stores

McDonald's Restaurants of Northeastern Ontario

National Bank of Canada

Northern and Central Gas Corp. Ltd.

Petro-Canada

Power Corporation

The Richard Ivey Foundation

Science North Auxiliary Group (1984-1985)

Science North Lottery Committee - 1987

Sudbury Boys' Home Trust Fund

Thorne Ernst & Whitney Chartered Accountants  
Townend, Stefura, Baleshta & Nicholls

## Associates

The A.E. LePage Charitable Foundation  
S.M. Blair Family Foundation  
Canadian Geological Foundation  
Carrington's Beaver Lumber  
Cortina Pizza  
Crown Life Insurance Company  
Desmarais, Keenan, Barristers and Solicitors  
Henninger's Diesel Ltd.  
Hinds and Sinclair Barristers and Solicitors  
Kinsmen Club of Sudbury  
Lions Club of Sudbury  
London Life Insurance Co.  
Montreal Trust Company  
Muirhead Stationers Inc.  
Multi-Care Systems Ltd.  
Mutual Life Insurance Company of Canada  
Richardson - Greenshields  
The Senator Norman M. Paterson Foundation  
Sheraton-Caswell Inn  
Support for Science Group (1988-89)  
Support for Science Group (1989-90)

## Friends

Air Canada  
David, Barbara, Michael, Tamara,  
Shaune Adamson

Algoma Central Railway  
E. & D. Bamberger

Lorraine Book  
Brunton, Browning, Day & Partners  
Mr. & Mrs. Robert & Bess Bryson

Birks Family Foundation

Miss Frances Cadeau

Canada Cement Lafarge Ltd.

Canada Packers Inc.

Canada Permanent Trust Company

Canadian General Electric Company Ltd.

Central Guaranty Trust

Le Chapitre des Caisse Populaires de la Région  
de Sudbury

Oscar & Evelyn Chappell, Hyliard & Grace Chappell

Club Montessori

Barney & Sheila Cook

Jim Cormack and Family

Dr. & Mrs. D.F. Crang

Jim Cuming

John A. & Lesley Desotti

In Memory of Mary & Armie Didone

Entomological Society of Canada

Carter & Allison Esau

N.J. Forest

The Gauvreau School of Performing Arts

Ryann Gavin

Dr. & Mrs. R.D. Ghent

Mr. & Mrs. Robert G. Gougeon & Family

In Memory of Doris Goulding Sutherland

James & Aileen Grassby

Mr. & Mrs. T.L. Hennessy

Geale & Peg Hewson

Honeywell Limited

House of Broadloom & the Stewart Family

Imperial Optical of Canada

Interprovincial Pipe Line Inc.

The Jensens - Chris, Ruby, Gitte & Eric

Dr. & Mrs. Zul Juma

Mr. & Mrs. Peter Kenny

John & Marilyn King

Lacroix, Forest & Del Frate

Dr. & Mrs. Edwin Lam & Family

Bernie & Mary Langlois

Marcel and Marie Leblanc, Darren and Catherine

Little Long Lac Gold Mines

Mallette-Goring and Associates Ltd.

Mr. & Mrs. Larry Marconi

W. Bruce Martin Insurance Ltd.

Dr. A. Mathur and Family

McEndon Limited

Dr. James McNally and Mrs. Wendy

McNally, Seumas & Philippe

Pauline & James T. Miller

Tony Monteleone

Fred, Joseph & Peter Pagnutti

Ray & Connie & Kevin Philion

Pinkerton of Canada Ltd.

Mr. & Mrs. L.A. Pope

Procter and Gamble Inc.

Mr. & Mrs. Alan Querney

Ramsey Lake Navy

Bill & Shaen Rolston

Royal Insurance of Canada

In Memory of R.P. "Reg" Rumball

The Semadeni Family

Sherritt Gordon Mines Ltd.

Sir Joseph Flavelle Foundation

Ward & Madge Skinner

The Sorensens, Tom, Karen, Kristee, Kory

Sostarich, Ross, Wright, Cecutti & Didone -

Chartered Accountants

Ken & Janet Stonley

Tassé Automobiles Ltd.

Robert & Heather Topp

Dr. & Mrs. A.J. Valiaho

Judge & Mrs. Ronald Warren & Family

Mr. & Mrs. Coleman Young





# AUDITED FINANCIAL STATEMENTS

MARCH 31, 1990

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Balance Sheet .....	18-19
Statement of Changes in Fund Balances .....	20-21
Statement of Investment in Capital Assets .....	21
Notes to Financial Statements .....	22



# AUDITORS' REPORT

**To the Honourable Minister of Culture and Communications of the Province of Ontario and the Board of Trustees of Science North.**

We have examined the balance sheet of Science North as at March 31, 1990 and the statements of changes in fund balances and investment in capital assets for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances.

In our opinion, these financial statements present fairly the financial position of the Centre as at March 31, 1990 and the results of its operations and changes in its fund balances for the year then ended in accordance with the basis of accounting as described in the Summary of Significant Reporting Practices and Accounting Policies applied on a basis consistent with that of the preceding year.

**Peat Marwick Thorne**  
Chartered Accountants

Sudbury, Canada  
May 22, 1990

# BALANCE SHEET

March 31

1990

1989

## Assets

### Current Assets

Cash and short-term investments	\$ 716,668	\$ 185,818
Accounts receivable	58,805	213,336
Prepaid expenses	63,056	26,123
	<hr/>	<hr/>
	838,529	425,277

### Restricted Fund Assets

Cash	186,524	17,426
Marketable securities	1,343,575	1,259,859
Due from operating fund (note 1)	51,028	-
Accrued interest receivable	81,560	71,503
	<hr/>	<hr/>
	1,662,687	1,348,788

### Capital Assets

Bell Grove Site	20,862,634	20,701,885
Exhibits		
Bell Grove	8,025,722	7,183,120
Big Nickel Mine	2,232,465	2,209,569
	<hr/>	<hr/>
	31,120,821	30,094,574
	<hr/>	<hr/>
	\$ 33,622,037	\$ 31,868,639

	<b>March 31</b>	
	<b>1990</b>	<b>1989</b>
<b>Liabilities and Equity</b>		
<b>Current Liabilities</b>		
Accounts payable and accrued liabilities	\$ 214,707	\$ 250,999
Deferred revenue	105,431	45,467
	<hr/> 320,138	296,466
Due to restricted fund (note 1)	51,028	-
<b>Equity</b>		
Reserves and restricted funds (note 2)	1,662,687	1,348,788
Unexpended capital funds	467,363	128,811
Investment in capital assets	31,120,821	30,094,574
	<hr/> 33,250,871	31,572,173
	<hr/> \$ 33,622,037	\$ 31,868,639

Economic Dependence (note 3)

Commitment (note 4)

APPROVED BY THE BOARD:



Trustee

Trustee

# STATEMENT OF CHANGES IN FUND BALANCES

Year ended March 31, 1990

	Operating	Capital	Reserves & Restricted Funds	1990 Total	1989 Total
<b>Revenue</b>					
<b>Government grants and subsidies</b>					
Province of Ontario					
Operating	\$ 2,921,256			\$ 2,921,256	\$ 2,808,900
Capital		\$ 1,200,000		1,200,000	580,000
Specific	187,710	81,698		269,408	96,134
Employment	59,440			59,440	63,904
	3,168,406	1,281,698		4,450,104	3,548,938
Government of Canada					
Specific	161,696	11,278		172,974	163,995
Employment	60,267			60,267	72,462
	221,963	11,278		233,241	236,457
Attendance and other					
Bell Grove	582,147			582,147	643,951
Big Nickel Mine	210,184			210,184	192,670
Other program revenue	61,356			61,356	29,308
Memberships	72,008	18,864		90,872	83,321
Parking	46,969			46,969	53,280
Food and gift shops	189,549		\$ 38,919	228,468	204,880
Miscellaneous	17,490	57,326		74,816	34,885
Gifts and contributions		22,670	11,468	34,138	208,495
Proceeds from capital asset disposals					
Interest earned	161,155		137,583	298,738	169,522
	1,340,858	100,201	187,970	1,629,029	1,643,077
	\$ 4,731,227	\$ 1,393,177	\$ 187,970	\$ 6,312,374	\$ 5,428,472

	Operating	Capital	Reserves & Restricted Funds	1990 Total	1989 Total
<b>Expenses and other</b>					
Scientific program	\$ 2,036,788	\$ 730,301	\$ 2,767,089	\$ 2,370,350	
Physical plant	1,092,857	181,239	39,785	1,313,881	1,236,499
Administration	633,835	220,231		854,066	669,579
Marketing and special events	474,193		2,523	476,716	594,685
Human resources	248,171			248,171	206,319
	4,485,844	1,131,771	42,308	5,659,923	5,077,432
Change in year before interfund transfers	245,383	261,406	145,862	652,451	351,040
Interfund transfers	(245,383)	77,146	168,237	-	-
<b>Net Change in the Year</b>	<b>N/A</b>	<b>338,552</b>	<b>313,899</b>	<b>652,451</b>	<b>351,040</b>
Fund balance at beginning of year	N/A	128,811	1,348,788	1,477,599	1,126,559
<b>Fund Balance at End of Year</b>	<b>\$ N/A</b>	<b>\$ 467,363</b>	<b>\$ 1,662,687</b>	<b>\$ 2,130,050</b>	<b>\$ 1,477,599</b>

## STATEMENT OF INVESTMENT IN CAPITAL ASSETS

	Year ended March 31	
	1990	1989
Balance at beginning of year	\$ 30,094,574	\$ 29,788,148
Add:		
Capital fund expenditures	1,131,771	818,291
Replacement, alterations and minor capital items	105,524	511,865
	1,026,247	306,426
<b>Balance at End of Year</b>	<b>\$ 31,120,821</b>	<b>\$ 30,094,574</b>

# NOTES TO FINANCIAL STATEMENTS

Year ended March 31, 1990

## General

Science North is an Agency of Her Majesty created under the Science North Act, 1986 by the Ontario Legislative Assembly. The principal activities of Science North (hereinafter referred to as the "Centre") include the operation of an exhibition centre demonstrating the relationship between science and technology and everyday life to tourists and visitors in Northern Ontario and the surrounding communities.

## Summary of Significant Reporting Practices and Accounting Policies

### Significant Reporting Practices

The financial statements of the Centre have been prepared by management in accordance with generally accepted accounting principles with the following exceptions:

i) Depreciation is not recorded in the accounts and the cost of replacements are accounted for as charges against the fund to which they pertain.

ii) Capital grants, donations and pledges other than for specific purposes are accounted for on a cash basis.

iii) Vacation pay is provided for in the accounts to the extent of part-time and non-permanent employees only. Vacation pay entitlements for full-time employees are accounted for on a cash basis (note 4).

Because the Centre receives funding for special purposes as well as for operational purposes, the financial statements are presented in a manner which segregates the following fund balances:

a) Operating funds, which present the day-to-day demonstrative, administrative and maintenance operations

of the Centre. Costs incurred by the fund relating directly to other funds are accounted for as a transfer between funds.

b) Capital funds, which present those funds made available for capital acquisitions, replacements and enhancements through government grants, donations and certain special fund raising activities. Unexpended capital funds represent budgeted capital expenditures not yet incurred. Unfinanced capital represents capital expenditures made but not yet financed.

c) Reserves and restricted funds, which present certain funds set aside by the Centre for restricted purposes, some to be used at the discretion of the Board of Trustees and others as prescribed by the Province of Ontario, the Centre and other benefactors which are restricted as to purpose and expendability.

### Significant Accounting Policies

These financial statements are prepared in accordance with the following significant accounting policies:

#### Marketable Securities

Restricted fund marketable securities are recorded at cost.

#### Capital Assets

Capital assets are stated at cost or fair market value if donated. The exception to this policy is the Bell Grove land donated to the Centre by the City of Sudbury. No amount has been assigned to this asset.

Capital assets purchased from grants and donations are included as capital assets with a corresponding increase in investment in capital assets.

Replacements of existing capital assets are charged to capital funds and are not reflected on the balance sheet.

#### Investment Income

The Centre allocates investment income earned on the following bases:

- i) on operating funds - - - to the Operating Fund
- ii) on capital funds - - - to the Operating Fund
- iii) on restricted funds - - - to the Restricted Fund

## 1. Due to Restricted Fund

The amount due to the restricted fund is repayable in monthly instalments of \$1,400 including principal and interest calculated at the average yield of Science North's previous year's investment portfolio.

## 2. Reserves and Restricted Funds

The reserves and restricted funds are comprised of the following:

	1990	1989
Capital Renewal Fund	\$ 1,314,374	\$ 1,191,323
Other Restricted Funds	311,810	140,039
Reserves	36,503	17,426
	<hr/>	<hr/>
	\$ 1,662,687	\$ 1,348,788

## 3. Economic Dependence

Pursuant to the Act which established Science North, the Centre receives capital and annual operating assistance from the Province of Ontario which has the power to appoint the Board of Trustees who in turn manage the affairs of the Centre.

## 4. Commitment

The unrecorded liability with respect to vacation pay entitlements for full-time employees amounts to approximately \$123,000 as at March 31, 1990 (1989, \$78,000).

## 5. Comparative Figures

Certain 1989 comparative amounts have been reclassified to conform with the presentation adopted for 1990.



# INVESTISSEMENT DANS LES IMMOBILISATIONS

# ÉVOLUTION DES SOLDES DES FONDS

exercice clos le 31 mars 1990

Revenus	Subventions gouvernementales	Promesse de l'Ontario	Subventions à l'industrie	équitable
Revenus	Subventions au fonds de capitaux	Subventions à des fins précises	Subventions à des fins précises	Gouvernement du Canada
Revenus de participation et autres	Subventions à des fins précises	Subventions à des fins précises	Subventions à des fins précises	Revenus de participation et autres
Bell Grove	72 462	60 267	11 278	221 963
Mine Big Nickel	163 995	172 974	11 278	582 147
Revenus nets d'autres programmes	161 996	161 996	11 278	582 147
Revenus nets	61 356	61 356	210 184	210 184
Revenus	61 356	61 356	29 398	192 670
Salucommcni	46 969	46 969	72 008	643 951
Bouliodes d'aiments et de cadeau	189 549	189 549	72 008	643 951
Dons et contributions	17 490	57 326	18 864	582 147
Produit de l'affiliation	22 670	22 670	11 468	11 468
Mètres créditeurs	161 155	137 583	1 341	1 341
4731 227 \$	1 393 177 \$	187 970 \$	1 393 177 \$	4731 227 \$

1 430 858	100 201	187 970	1 629 029	1 643 077
1 341	1 341	1 341	1 341	1 341
22 670	22 670	11 468	34 138	208 495
169 252	169 252	74 816	34 885	204 880
53 280	53 280	22 484	22 484	204 880
53 280	53 280	90 872	83 321	29 398
61 356	61 356	210 184	210 184	210 184
192 670	192 670	61 356	61 356	61 356
643 951	643 951	582 147	582 147	582 147
236 457	236 457	233 211	233 211	236 457
72 462	72 462	60 267	60 267	60 267
163 995	163 995	172 974	172 974	163 995
Gouvernement du Canada				
Subventions à des fins précises				
Subventions à l'emploi				
Bell Grove				
Mine Big Nickel				
Revenus nets	Revenus nets	Revenus nets	Revenus nets	Revenus de participation et autres
Revenus de participation et autres				

PASSIF ET SITUATION NETTE		
	1990	1989
Passe à court terme		
Créditeurs et frais courus	214 707 \$	250 999 \$
Revenu reporté	105 431	45 467
Somme à payer aux fonds assortis de restictions (note 1)	320 138	296 466
Situation nette	31 028	
Services et fonds assortis de restictions (note 2)	1 662 687	1 348 788
Fonds de capital immobiliers	467 363	128 811
Investissement dans les immobilisations	31 120 821	30 094 574
33 250 871		31 572 173
33 622 037 \$		31 868 639 \$
Dépendance économique (note 3)		
Engagements (note 4)		
AU NOM DU CONSEIL,		
Administrateur		
Administrateur		

## ACTIVE

AEEL2.com/come

### Encaisse et placements à court terme

### Frais payés d'avance

### Éléments d'actif des fonds assortis de

425 277	838 529
26 123	63 056
213 336	58 803
185 818 \$	716 668 \$

1 343 575	186 524
1 259 859	17 426
1 343 575	1 343 575
51 028	81 560
71 503	1 348 788
662 697	1 348 788

31 MARS

0661

686L

## BRITISH

# RAPPORT DES VERIFICATIONS

au Ministre des Affaires culturelles et des Communications de la province de Québec et aux membres du conseil d'administration de Science Nord

Nous avons vérifié le bilan de Science Nord au 31 mars 1990 ainsi que les états de l'évolution des soldes des fonds et de l'investissement dans les immobilisations de l'exercice clos à cette date. Notre vérification a été effectuée conformément aux normes de vérification généralement reconnues, et a comporté par conséquent les sondages et autres procédés que nous jugeons nécessaires dans les circonstances.

À notre avis, ces états financiers présentent fidélement la situation financière du centre au 31 mars 1990 ainsi que les résultats des activités et l'évolution des soldes de ses fonds pour l'exercice clos à cette date selon les conventions comptables édictées dans le sommaire des principaux procédés de présentation de l'information financière et des principales conventions comptables, applicables de la même manière qu'au cours de l'exercice précédent.

Peat Marwick Thorne

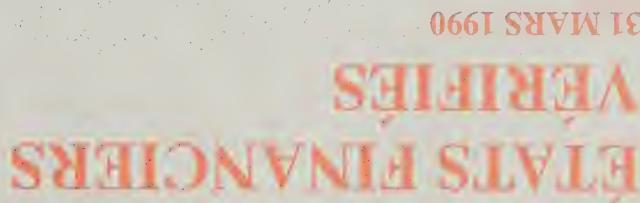
Sudbury, Canada  
22 mai 1990

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# ETATS FINANCIERS

## VERIFIÉS

31 MARS 1990



An abstract graphic design on a white background. It features a large, solid orange circle in the lower right quadrant. In the upper left quadrant, there is a large, solid blue triangle pointing downwards. In the upper right quadrant, there is a large, solid blue oval. The shapes are simple and have a slight shadow or gradient effect.

Dr et Mme Mary Langlois  
 Bemelle et Marie Leblanc, Dattern et Cathérine  
 Little Long Lake Gold Mines  
 Mallie-Corning et associés Ltee  
 M. et Mme Léary Macoun  
 Les assurances Bruxelles Martin Ltee  
 Dr A. Mathieu et la famille  
 McEmond Ltee  
 Dr James McNally et Mme Wendy  
 McNally, Sumas et Philippe  
 Pauline et James T. Miller  
 Ray, Comme et Kevim Phillion  
 Pinkerton du Canada Ltee  
 M. et Mme L.A. Pope  
 Precier et Gamble Inc.  
 Ramsey Lake Navy  
 Bill et Shaeen Rouston  
 Royal Canadian Airlines Canada  
 A la mémoire de R. P. "Reg" Rumball  
 La famille Semaine  
 Scheritt Gordon Mines Ltee  
 La fondation sir Joseph Flavelle  
 Ward et Madge Skinner  
 La famille Souten, Tom, Karen, Kristee, Kory  
 Souten, Ross, Wright, Cecilia & Didione - comparable  
 Robert et Mme A.J. Whithro  
 Dr Mme Ronald Warren et la famille  
 Le juge et Mme Ronald Warren et la famille  
 M. et Mme Colleen Young

Le chapitre des Classics Populaires de la région de Sudbury

Oscar & Evelyn Chappell, Hyliard & Grace Chappell

Le club Montessori

Jim Crombie

Jim Crombie et Sheila Cooch

Dr et Mme D. F. Cranage

Dr et Mme R. D. Ghetin

Raymond Gauvreau

Le collectif des arts d'exécution Gauvreau

Carter et Alison Esaú

La société de Mry et Amie Didone

Jim et Lesley Desotu

N. Projet

Raymond Gauvreau

Dr et Mme R. D. Ghetin

James et Alison Grassby

M. et Mme T. L. Hemmessen

Géralde et Peg Hawson

Homewell Lite

Impressions D'Outaouais et de la famille Stewart

La famille Jeanson-Chris, Ruby, Giltie et Eric

La compagnie de gaz La provinciale Inc.

Dr et Mme Zul Juma

M. et Mme Peter Kenna

John et Martin King

La croix, Projet et Del Frate



En date du 31 mars, 1989

NORD



Comité d'administration	M. André Lécoïx - Vice-Chairman M. Robert Goügeon - Chairman
Comité de vérification des compétés	M. Aimé Lafrenière M. Alain Guérin M. Alan Quemere Mme Grace Rumball M. Romuald McDonald
Comité des levées de fonds	M. David McNab M. Brian Leedham M. Robert Tremblay Mme Eilles Denis Mme Deborah Kuehbaum M. Sean McGaugh M. Sean McGaugh M. David McNab Mme Mary Siefura
Comité de la loterie	M. André Lécoïx M. Robert Goügeon - Chairman M. Aimé Lafrenière M. Alain Guérin M. Alan Quemere Mme Grace Rumball M. Romuald McDonald
Comité du repas gastronomique	M. André Lécoïx - Vice-Chairman M. Robert Goügeon - Chairman M. Aimé Lafrenière M. Alain Guérin M. Alan Quemere Mme Grace Rumball M. Romuald McDonald
Comité des blets et des finances	Mme Jean Welsh - Vice-Chairman M. Ron Aelick M. Wayne Ayotte M. Thomas Désot Mme Helen Ghent M. Aimé Lafrenière M. TL Hemmery M. Robert Ledington M. Romuald McDonald
Comité consultatif des programmes scolaires	M. Aimé Lafrenière - Vice-Chairman M. Alain Guérin M. Alan Quemere M. Brian Leedham M. David McNab M. Sean McGaugh M. Sean McGaugh M. David McNab M. Ron Aelick M. Wayne Ayotte M. Thomas Désot Mme Helen Ghent M. Aimé Lafrenière M. TL Hemmery M. Robert Ledington M. Romuald McDonald

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Comité de vérification des compétés	M. Aimé Lafrenière M. Alain Guérin M. Alan Quemere Mme Grace Rumball M. Romuald McDonald
Comité des levées de fonds	M. David McNab M. Brian Leedham M. Robert Tremblay Mme Eilles Denis Mme Deborah Kuehbaum M. Sean McGaugh M. Sean McGaugh M. David McNab Mme Mary Siefura
Comité de la loterie	M. André Lécoïx M. Robert Goügeon - Chairman M. Aimé Lafrenière M. Alain Guérin M. Alan Quemere Mme Grace Rumball M. Romuald McDonald
Comité du repas gastronomique	M. André Lécoïx - Vice-Chairman M. Robert Goügeon - Chairman M. Aimé Lafrenière M. Alain Guérin M. Alan Quemere M. Sean McGaugh M. Sean McGaugh M. David McNab Mme Mary Siefura
Comité consultatif des programmes scolaires	M. Aimé Lafrenière - Vice-Chairman M. Alain Guérin M. Alan Quemere M. Brian Leedham M. David McNab M. Sean McGaugh M. Sean McGaugh M. David McNab M. Ron Aelick M. Wayne Ayotte M. Thomas Désot Mme Helen Ghent M. Aimé Lafrenière M. TL Hemmery M. Robert Ledington M. Romuald McDonald
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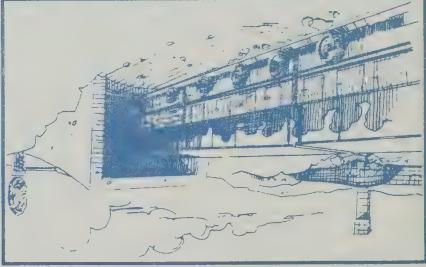
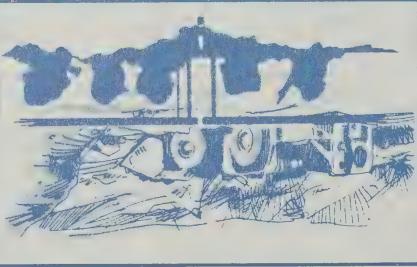
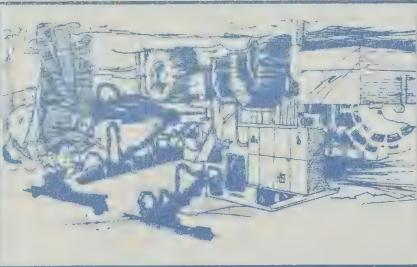


LES RESSOURCES HUMAINES



## Le Sentier de la découverte

à la mine Big Nickel en 1987. M. Nakamura a dirigé une délégation japonaise en juillet 1989 afin de céler l'entente à la mine Big Nickel avec la mine Big Nickel.



# LA MINE BIG NICKEL

Le Sénat de la découverte. L'acquisition d'un aérobus de 29 places pour une école de 330 élèves dans les deux mines. Le Sénat de la découverte. L'acquisition d'un aérobus de 29 places pour une école de 330 élèves dans les deux mines. Le Sénat de la découverte. L'acquisition d'un aérobus de 29 places pour une école de 330 élèves dans les deux mines.

Si le nombre de visiteurs à la mine demeure plus élevé que l'activité minière dans le Nord de l'Ontario, Depuis l'acquisition de la mine de fer à Sudbury en 1981, Seignier Nord a fait la visite minière la plus populaire au Canada. Des guides bien formés offrent des visites des galeries souterraines plusieurs fois par jour, de mai à octobre. Si le nombre de visiteurs à la mine demeure plus élevé que l'activité minière dans le Nord de l'Ontario, Depuis l'acquisition de la mine de fer à Sudbury en 1981, Seignier Nord a fait la visite minière la plus populaire au Canada. Des guides bien formés offrent des visites des galeries souterraines plusieurs fois par jour, de mai à octobre.



## Le spectacle de la Cavendish

En 1989, c'est enfin Nord qui a obtenu la première ordre de construction d'un grand parc éolien multi-média dans la province de Québec. Ce fut la première fois que la province de Québec a obtenu une commande de construction d'un parc éolien à son sou-comité qui devait établir la responsabilité de ce projet à un sous-comité qui devait établir la responsabilité de ce projet.

En fait, le spectacle débute dans le tunnel qui conduit à la scène. Là, le visiteur sera ébloui de chutes de météores tombant du ciel. Des éclairs et des détonations rythment l'ambiance. Des projecteurs illuminent les étoiles et les éclairs. Des effets spéciaux sont utilisés pour créer un effet de réalité augmentée. Des images 3D sont projetées sur les murs et le plafond, créant une immersion totale dans l'univers de Star Wars.

Le studio de musique de l'Inosphère a acquis des nouvelles installations et instruments de musique électronique et acoustique. Ces installations sont utilisées pour accéder à de l'équipement électronique des moyens techniques supplémentaires au visiteur qui peut ainsi apprécier l'interprétation de musiques électroniques et acoustiques. Ces installations sont utilisées pour accéder à de l'équipement électronique des moyens techniques supplémentaires au visiteur qui peut ainsi apprécier l'interprétation de musiques électroniques et acoustiques.

Les images numériques partagées sur Voyager II ont constitué une extraordinaire banque de photographies que Science Nord a transférée sur disque au basé. Accompagné d'un logiciel éducatif conçu par le personnel de Science Nord, ce dossier technique a été mis à la disposition de la NASA, de l'université de la Californie et du Club informatique de New-York et de l'Apple Canada.

Le succès d'une activité aussi originale dépend de l'ambiance créative qui régnait au sein de l'équipe de Science Nord. Les membres du Club d'astronomie de Sudbury, avec lesquels les échanges étaient réguliers, ont été très bons conseillers. L'ambiance créative qui régnait au sein de l'équipe de Science Nord a été très bonne. Les membres du Club d'astronomie de Sudbury, avec lesquels les échanges étaient réguliers, ont été très bons conseillers.



## EXPERIENCE BELL GROVE



Les enseignants du Nord ont également eu accès à des séminaires organisés par la Faculté de sciences Nord. En effet, Science Nord a embauché des étudiants venant de l'ouest du Québec pour étudier au sein de programmes de sciences du Sudbury. Grâce à un accord du ministère du Développement du Nord et des Mines, 12 étudiants du Nord ont accès au programme de sciences du Sudbury. Ces casques ont bénéficié d'une subvention du ministère du Développement du Nord pour étudier au sein de programmes de sciences du Sudbury. Cela est possible, grâce à la culture canadienne qui existe au Canada. Chaque fois que cela est possible, Science Nord confie la supervision de ces étudiants au Nord à des enseignants locaux. Ces casques ont bénéficié d'une subvention du ministère du Développement du Nord pour étudier au sein de programmes de sciences du Sudbury. Chaque fois que cela est possible, Science Nord confie la supervision de ces étudiants au Nord à des enseignants locaux. Camp a des étudiants locaux.

Dans le cadre du programme d'emploi pour étudiants du Nord, Science Nord a embauché des étudiants venant de l'ouest du Québec pour étudier au sein de programmes de sciences du Sudbury. Grâce à un accord du ministère du Développement du Nord et des Mines, 12 étudiants du Nord ont accès au programme de sciences du Sudbury. Ces casques ont bénéficié d'une subvention du ministère du Développement du Nord pour étudier au sein de programmes de sciences du Sudbury. Cela est possible, grâce à la culture canadienne. Chaque fois que cela est possible, Science Nord confie la supervision de ces étudiants au Nord à des enseignants locaux.

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La participation des élèves à nos programmes scolaires est demeurée forte durant 1989-1990. Ainsi, 39,27 % des étudiants de l'école de l'UQTR ont obtenu une place dans les programmes scolaires de l'UQTR. La participation des élèves à nos programmes scolaires est demeurée forte durant 1989-1990. Ainsi, 39,27 % des étudiants de l'école de l'UQTR ont obtenu une place dans les programmes scolaires de l'UQTR.

Le programme extrême de Science Nord utilise trois différentes modes de présentation des sciences. D'abord, des posters d'activités couvrant un thème qui suit les besoins des communautés publiques, des programmes qui visent les besoins de groupes plus petits ou encore des programmes sur demande; enfin des ateliers portant sur l'assemblage de pièces d'équipement telles que des relais de relais.

Pendant la saison touristique, Science Nord fait des présentations dans les parcs provinciaux. Durant la saison régulière, elle présente à l'unité de sciences Nord à la station touristique. Pendant la saison régulière, Science Nord fait des présentations dans les parcs provinciaux. Durant la saison touristique, Science Nord fait des présentations dans les parcs provinciaux. Durant la saison régulière, elle présente à l'unité de sciences Nord à la station touristique.

Durant l'automne 1989-90, le personnel visite 80 écoles 27 paires. Il visite également des musées, des résidences pour personnes âgées et quatre espaces-sciences. En tout, 34,956 personnes ont visité "Expositions-Sciences".

Le programme extrême a connu un essor considérable depuis que les "Campes de la découverte" sont offerts depuis 1986 aux établissements de Elliot Lake, Timmins, Sault-Sainte-Marie et Sudbury.

Le programme extrême de Science Nord a été aux établissements de Elliot Lake, Timmins, Sault-Sainte-Marie et Sudbury.



# STATISTIQUES ET AUTRES DONNÉES

1er avril 1989 - 31 mars 1990

Nombre d'admissions

Total 223,126  
Sentier de la découverte 7,466

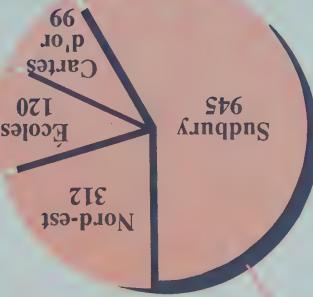
Sciente Nord 152,726  
La mine Big Nickel 62,934

Échanges : total 4728



Cartes de membres

Total 1476



Comptoir des échanges

Ouvert toute l'année.

Sciente Nord

La mine Big Nickel

du 1 mai 1989 au 9 Octobre 1989.  
Visites publiques du 26 juin 1989  
au 4 Septembre 1989.

Le Sentier de la découverte  
Du 20 mai 1989 au 1 octobre 1989.  
Les croisières du Cormia

## RAPPORT DU DIRECTEUR GÉNÉRAL

Au cours de l'année 1989, Science Nord a lancé plusieurs projets d'immobilisation grâce à un accord de ministère de l'Énergie. Ces derniers ont pour but d'assurer la sécurité des usagers et de l'environnement. Ils visent à lutter contre les dégâts causés par les éruptions volcaniques et les séismes. Ces projets sont financés par l'État et par les collectivités territoriales. Ils sont réalisés par des entreprises privées et publiques. Les coûts totaux sont estimés à 1,5 milliard de francs. Ces projets visent à protéger les populations et les biens contre les risques naturels.

Ces secteurs prioritaires servent mis en valeur grâce aux efforts combinés du personnel, des bénévoles et des membres du Conseil de Sécurité Nord. L'enthousiasme, le talent et l'esprit d'innovation de toutes ces personnes sont les que centre. Sincere Nord pourra poursuivre sa croissance jusqu'à la fin de sa première décennie et davantage.

James Marchbank,  
Directeur général.



# LETTRE DU PRÉSIDENT

Monsieur le ministre,

Toronto, Ont.

L'honorable Rosario Marchese,  
Ministre de la Culture et des Communications

À l'nom du Conseil d'administration de Science Nord, j'ai l'honneur de vous présenter le rapport de Science Nord

pour l'exercice financier 1989-90.

J'annexe ci-joint le rapport de l'administration de Science Nord, qui donne lieu à plusieurs événements marquants: plus de 5 000 résidents de Sudbury sont en cours de manifester leur appui à Science Nord; Science Nord a accueilli son millionième visiteur; et le Conseil a élaboré un nouveau plan directeur quinquennal.

Notez nouveau bilan de mission réflet le degré de maturité de l'institution en même temps qu'il respecte les principes qui l'assistent depuis le premier trimestre de 1987. Nous avons voulu mettre au cœur de ce nouvel énoncé le thème de "l'expérience Science Nord" que tous les secteurs de notre organisation s'efforcent maintenant de mettre en valeur.

Le bilan de mission comprend l'idée que Science Nord est aussi bien un concept qu'un ensemble d'édifices, que Science Nord est une "expérience humaine globale".

Science Nord est également un point de vue sur le monde, une lagune d'abordier la science, qui honore le rôle public. Science Nord vise à those de toute autre perspective. En effet, il est probablement impossible de sauver l'au cours de la prochaine décennie.

Le Conseil reconnaît que c'est à l'esprit d'initiative de son personnel que l'institution doit son succès et l'excellence au cours de la prochaine décennie.

Nous sommes convaincus que nos rapports avec vous, Monsieur le ministre, seront aussi fructueux de ces programmes. Nous sommes convaincus que l'institution doit son succès et l'excellence au cours de la prochaine décennie.



Robert G. Gougeon,  
Président,  
Conseil d'administration.

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Une agence du ministère de la Culture et des Communications de l'Ontario.



La mission de Science Nord consiste à offrir aux résidents et aux touristes, en anglais et en français, un programme d'expositions et d'activités stimulantes permettant aux participants de considérer les rapports entre la science, la technologie et la vie quotidienne, surtout en ce qui a trait au Nord.

# LA MISSION DE SCIENCE NORD

RAPPORT  
ANNUEL  
DE  
SCIENCE  
NORD

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